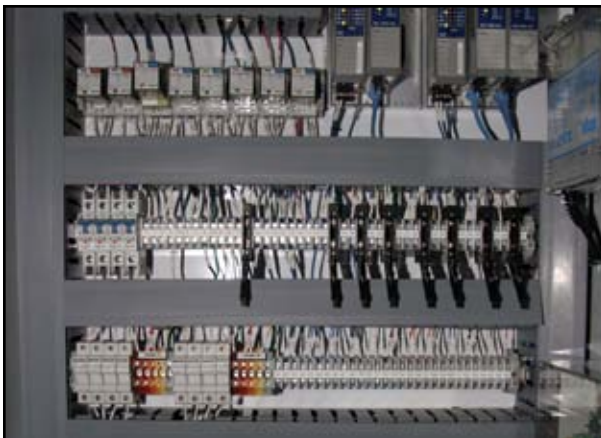


# Automation



Pillar Innovations is an experienced turn-key provider of PLC programming, software control packages, network integration, and instrumentation for many leaders in the energy, manufacturing, and public works industries. Pillar can take your project from design to fabrication to installation and commissioning.

With extensive experience in common control packages such as Rockwell's RSView SE, Pillar's programmers and technicians have the skill to effectively automate and control the processes your plant relies on.

From environmental systems responsible for preserving human life to manufacturing lines responsible for the bottom line, industry leaders trust Pillar Innovations with their critical systems.

Services Pillar Innovations can provide include:

- PLC Programming
- HMI/MMI/SCADA Design and Configuration
- PC Based Control Systems Programming
- Electrical Engineering and Project Management
- Electrical Panel Design and Fabrication
- Instrumentation and Calibration
- Field Service and Troubleshooting
- Networking

Visit [www.pillarinnovations.com](http://www.pillarinnovations.com) to learn more about Pillar's products and services including Fiber Optics, Fire Sprinkler Systems, Security, Video, and Wireless Broadband.

# TAKING THE HIGHEST TECHNOLOGY TO NEW DEPTHS



A coal mine and preparation plant's water system is responsible for drawing water from a local river, transfer to several storage ponds and tanks, chlorine treatment, and pumping underground as well as to the plant for use in various processes. This system was being monitored and controlled manually resulting in high maintenance costs and inaccurate control. Pillar Innovations networked and automated the system so that little or no human involvement is needed. A software package was provided for visualization, alarming, and trending as well as control.

Pillar's experience in underground mining has led to the development of the Mine-Wide Monitoring System. These systems, installed at many of the country's largest mines, integrate many processes and systems including: conveyor belts, fans, pumps, water systems, atmospheric monitoring systems, and electrical systems. Operators monitor alarms and conditions through a distributed system that provides client access across the corporate network.



Prior to the development of the Emulsion Control Unit, high levels of solcenic fluid were continuously being used to lubricate equipment at a Pennsylvania operation. By controlling the mixing station, Pillar Innovations is able to save the client money and improve efficiency by precisely monitoring and controlling the emulsion system so that the equipment is not endangered by low levels and waste is not created by using excess fluid.

Pillar Innovations successfully replaced, updated and integrated the Cooperite and APV processes at an activated carbon facility. The Cooperite process was controlled by an outdated Modicon PLC and the APV process used individual P.I.D. controllers which needed tuning every time the process started. All the motor push-buttons, P.I.D. controllers and chart recorders were replaced with one PanelView MMI. A new Control Logix PLC was installed with new logic that reduced startup time from 1.5 hours to 10 minutes. Visibility and trending has also been improved with client access to historical values and current conditions remotely.



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